Page	_1_	of	3
5			

**FORM PTO-1449** 

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney's Docket Number 5820.615

Serial Number
Not Yet Assigned

(Fill-A-Form 7.92)

## **INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Applicant Daniel E. Resasco, et al.

Filling Date Herewith

Group Unknown

U. S. PATENT DOCUMENTS DATE FILING DATE **EXAM** DOCUMENT NUMBER CLASS SUBCLASS INIT. APPROPRIATE SA AA 05/05/1987 Tennent 11/24/1992 Tennent et al. AB AC 07/13/1993 Smalley et al. AD 04/05/1994 Smalley ΑE 01/09/1996 Ohshima et al. AF08/06/1996 Wang AG 09/17/1996 Smalley 10/01/1996 Uchida et al. AH ΑI 11/26/1996 Tennent et al. AJ 12/24/1996 Ohshima et al. ΑK 01/07/1997 Smalley 5 . 02/18/1997 ALGrochowski AM 07/15/1997 Tanaka 06/24/1997 AN Ebbesen et al. AO 12/09/1997 Ikazaki et al. 12/16/1997 AP Hiura et al. Snyder et al. 01/13/1998 AQ 04/28/1998 AR Creehan 05/19/1998 Olk AS Yammamoto et al. AT 06/30/1998 AU 07/14/1998 Nolan et al. ΑV 09/29/1998 Niu et al. 

03/02/1999

10/12/1999

11/16/1999

12/07/1999

Snyder et al.

Nolan et al.

Howard et al.

Lieber et al.

AW

ΑX

ΑY

AZ

-	-	-

	FOREIGN PATENT DOCUMENTS							
EXAM INIT.		Office DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Transl	lation
					-	CODOLAGO	YES	NO
8/m	BA	PCT/US00/15362	ukravn	International Search Report	-	_		
_\_	вв	9709272	03/13/1997	PCT/US			Х	
	вс	98392550	09/11/1998	PCT/US	_		Х	
	BD	9842620	10/01/1998	PCT/JP	_			Х
V	BE	WO 00/17102	03/30/2000	PCT International Publication				
EXAM INIT. OTHER DOCUMENTS (Including, Author, Title, Date, Pertinent Pages, Etc.)								

		Publication				
EXAM INIT.		OTHER DOCUMENTS (Including, Author, Title, Date, Pertinent Pages, Etc.)				
SUP	CA	Bethune et al.; "Cobalt-Catalysed Growth of Carbon Nanotubes with Single-Atomic- Layer Walls," Nature, 363:605-607, Jun 1993.				
	СВ	V. Brotons et al., "Catalytic influence of bimetallic phases for the synthesis of single-walled carbon nanotubes", JOURNAL OF MOLECULAR CATALYSIS, A: Chemical 116 (1997) 397-403.				
	CC	Cassell et al., "Large Scale CVD Synthesis of Single-Walled Carbon Nanotubes", AMERICAN CHEMICAL SOCIETY, pp. 6483-6492, 1999.				
	CD	Che et al., "Chemical Vapor Deposition Based Synthesis of Carbon Nanotubes and Nanofibers Using a Template Method", CHEMICAL MATER. 1998, 10, PP. 260-267.				
	CE	Chen et al., "Growth of carbon nanotubes by catalytic decompositon of CH4 or CO on a Ni-MgO catalyst", CARBON VOL. 35, No. 10-11, pp. 1495-1501, 1997.				
	CF	Cheng et al.; "Bulk Morphology and Diameter Distribution of Single-Walled Carbon Nanotubes Synthesized by Catalytic Decomposition of Hydrocarbons," Chemical Physics Letters, 289:602-610, 1998.				
	CG	Cheng et al.; "Large-Scale and Low-Cost Synthesis of Single-Walled Carbon Nanotubes by the Catalytic Pyrolysis of Hydrocarbons," Applied Physics Letters, 72(25):3282-3284, 06/25/98.				
	СН	Dai et al.; "Single-Wall Nanotubes Produced By Metal-Catalyzed Disproportionation of Carbon Monoxide," Chemical Physics Letters, 260:471-475, 1996.				
	CI	Database, Accession No. 1999-366878, Cano, "Canno KK", XP-002149235, 05/25/1999.				
	CJ	Fonseca et al., "Synthesis of single-and multi-wall carbon nanotubes over supported catalysts", APPLIED PHYSICS A, 67, PP. 11-22, 1998.				
1	CK	Govindaraj et al., "Carbon structures obtained by the disproportionation of carbon monoxide over nickel catalysts", MATERIALS RESEARCH BULLETIN, Vol. 33, No. 4, pp. 663-667, 1998.				

EXAM INIT.			ENTS (Including, Author, Title, Date, Pertinent Pages, Etc.)	
by DA		Hafner et al., "Catalytic growth of single-wall carbon nanotubes from metal particles", CHEMICAL PHYSICS LETTERS, 296, PP 195-202, 1998.		
	DB	Hernadi et al., "Catalytic synthesis of carbon nanotubes using zeolite support", ELSEVIER SCIENCE INC. 1996.		
	DC	HYPERION CATALYSIS INTERNATIONAL Website;  http://www.fibrils.com/esd.htm-; "Unique Slough Resistant SR <sup>TM</sup> Series ESD Thermoplastic Product Line Offers Reduced Particle Contamination For Demanding Electronic Applications, " and Hyperion Homepage http://www.fibrils.com.		
	DD	I. Willems et al., "Control of the outer diameter of thin carbon nanotubes synthesized by catalytic decomposition of hydrocarbons", CHEMICAL PHYSICS LETTERS, 317 (2000) pp. 71-76.		
	DE	Iijima, Sumio; "Helical Microtubule 354:56-58, Nov 1991.	s of Graphitic Carbon," Nature,	
	DF	<pre>Iijima et al.; "Single-Shell Carbon Nanotubes of 1-nm Diameter", Nature 363:603-605, Jun 1993.</pre>		
	DG	Ivanov et al.; "The Study of Carbon Nanotubes Produced by Catalytic Method," Chemical Physics Lettersm 223:329-335, 1994.		
	DH	Journet et al.; "Large-Scale Production of Single-Walled Carbon Nanotubes by the Electric-Arc Technique," Nature, 338:756-758, Aug 1997.		
	DI	B. Kitiyanan et al., "Controlled production of single-wall carbon nanotubes by catalytic decomposition of CO on bimetallic Co-Mo catlaysts", CHEMICAL PHYSICS LETTERS, 317 (2000), pp. 497-503, 2/4/2000.		
	DJ	Krishnankutty et al.; "The Effect of Copper on the Structural Characteristics of Carbon Filaments Produced from Iron Catalyzed Decomposition of Ethylene," Catalysts Today, 37:295-307, 1997.		
	DK	Li et al., "Large-Scale Synthesis of Aligned Carbon Nanotubes", SCIENCE, Vol. 274, pp. 1701-1703.		
	DL	Rinzler et al.; "Large-Scale Purification of Single-Wall Carbon Nanotubes: Process, Product, and Characterization," Applied Physics A, 67:29-37, 1998.		
	DM	Thess et al., "Crystalline Ropes of Metallic Carbon Nanotubes, SCIENCE, Vol. 273, pp. 483-487.		
V	DN	DN Yakobson et al.; "Fullerene Nanotubes: C <sub>1,000,000</sub> and Beyond," <u>American Scientist</u> , 85:324-337, Jul-Aug 1997.		
EXAMINER		De Anden	DATE CONSIDERED 6 27 3	
		itation considered, whether or not citation is in conformance with MPEP § 609: Draw line th unication to the applicant.	rough citation if not in conformance and not considered. Include a copy of this	

5820.615 Form 1449.wpd